



**Fw: VB I-70 OU2 additional data needs**

Sam Garcia to: Lisa.Farrell

Cc: wharton.steve, Andrew Schmidt, sisk.richard, fonda.apostolopoulos

02/03/2011 03:32 PM

Hi Lisa,

Below is a list of tasks that our Hydrogeologist requested. The City & County of Denver and EPA should resolve these issues prior to completion of the Proposed Plan. If you have any questions, feel free to call me.

Thanks,

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----- Forwarded by Sam Garcia/R8/USEPA/US on 02/03/2011 02:55 PM -----

From: Andrew Schmidt/R8/USEPA/US  
To: Sam Garcia/R8/USEPA/US@EPA  
Cc: Deborah McKean/R8/USEPA/US@EPA  
Date: 01/27/2011 02:33 PM  
Subject: VB I-70 OU2 additional data needs

Hi Sam,

Based on our discussion with CCoD and EMSI, I've revised the list of tasks that I think would be necessary to provide a more complete picture of the potential impacts to groundwater at VB I-70 OU2. The modified list is below:

1. Documentation of well construction details for monitoring wells MW-1 through MW-6, and for the Denver Coliseum cooling wells.
2. Documentation of lithology encountered during the installation of Monitoring wells MW-1 through MW-6 (and the Denver Coliseum wells if available).
3. Monitoring wells MW-1 through MW-6 should be surveyed and depth to water measurements should be made for at least four consecutive quarters (wells should all be checked for LNAPL and DNAPL during gauging as a result of the landfill).
4. Based on depth to groundwater data, quarterly potentiometric maps should be created to determine groundwater flow direction, seasonal variations to groundwater flow, and the influence of the Denver Coliseum cooling wells.
5. Based on the presence of the municipal landfill, detections of VOCs and PAHs in soil samples, and visual observations made during the soil borings, groundwater from monitoring wells MW-1 through MW-6, and the Denver Coliseum wells should be analyzed for VOCs and SVOCs for

four consecutive quarters (We still may want to ask them to analyze for metals as well to get current data). If the wells are to be sampled, I recommend that they be properly developed. As per our discussion with CCoD and EMSI, the wells were never developed following installation by ASARCO/EnviroGroup.

6. Comparison of COPC concentrations in soil vs. Residential Screening Level Soil to Groundwater Supporting values (VOCs, SVOCs, and metals).
7. Documentation of the Denver Coliseum cooling well extraction rates, periods of operation, and disposal of cooling water.

Please let me know if you have any additional questions.

Thank you,

Andrew

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